

Serial No. 10/574,145
Amdt. Dated Sep. 1, 2009
Reply to Final Office Action of July 7, 2009

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-3 (canceled)

Claim 4 (previously presented): A device comprising:
a first layer, wherein the first layer is flexible; and
a second layer having a corrugated structure and being in contact with the first layer along a substantial portion of a length of the second layer so as to prevent fracture of the second layer when the first layer is deformed; wherein the second layer comprises a series of adjoining troughs and ridges, each trough and each ridge including substantially flat portions, and wherein transitions between the troughs and ridges are curved.

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Claim 5 (previously presented): The device according to claim 4, wherein the first layer comprises an acrylate lacquer.

Claim 6 (previously presented): the device according to claim 4, wherein the second layer is a coating on the first layer.

Claim 7 (previously presented): The device according to claim 4, wherein the first layer comprises a corrugated topography.

Claim 8 (canceled)

Claim 9 (previously presented): The device according to claim 4, wherein widths of the substantially flat portions are selected to prevent fracture when the first layer is deformed to a predetermined radius of curvature.

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Claim 10 (previously presented): The device according to claim 9, wherein the widths are selected to be less than a predetermined length, the predetermined length being dependent on the average length between cracks for a continuous layer deformed to the predetermined radius of curvature.

Claim 11 (canceled)

Claim 12 (previously presented): A device comprising:
a first layer, wherein the first layer is flexible; and
a second layer having a corrugated structure and being in contact with the first layer along a substantial portion of a length of the second layer so as to prevent fracture of the second layer when the first layer is deformed;

wherein the second layer comprises a series of adjoining troughs and ridges, each trough and each ridge including substantially flat portions, and wherein the substantially flat portions are interconnected by curved transitions to provide a continuous path for an electric

current.

Claim 13 (previously presented): The device according to claim 4, wherein the corrugated structure comprises an undulating topography with continuously adjoining troughs and ridges.

Claim 14 (currently amended): The device according to claim-4 21, wherein the substrate comprises polyvinyl chloride.

Claim 15 (previously presented): The device according to claim 4, wherein the second layer comprises a transparent conductor.

Claim 16 (previously presented): The device according to claim 15, wherein the second layer comprises a conductive oxide.

Claim 17 (previously presented): The device according

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to claim 4, comprising a display.

Claims 18-20 (canceled)

Claim 21 (previously presented): The device of claim 4, further comprising a third layer in contact with the first layer, wherein the third layer comprises a substrate and the first layer comprises one or more coatings on the substrate.

Claim 22 (previously presented): The device of claim 4, wherein lengths of the substantially flat portions are no greater than three times an average spacing between cracks developed when a continuous layer of material of the second layer is deformed to a predetermined radius of curvature.

Claim 23 (previously presented): A method of fabricating a device comprising the acts of:

forming a first layer and a second layer, wherein the first layer is flexible;

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forming a second layer having a corrugated structure and being in contact with the first layer along a substantial portion of the length of the second layer so as to prevent fracture of the second layer when the first layer is deformed, wherein the second layer has a plurality of interconnected portions each having a portion length, the plurality of interconnected portions comprising a series of adjoining troughs and ridges, each trough and each ridge including substantially flat portions, wherein transitions between the troughs and ridges are curved; and

selecting the portion length to prevent fracture when the first layer is deformed to a predetermined radius of curvature.

Claim 24 (previously presented): The method according to claim 23, wherein the selecting act comprises the acts of:

determining a spacing between cracks for a continuous layer of material when deformed to a predetermined radius of curvature; and

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selecting the portion length to be a value that is
dependent on the determined spacing.

Claim 25 (previously presented): The method according
to claim 24, wherein the selecting act further comprises the
acts of:

determining an average spacing between the cracks; and
selecting the portion length to be no greater than
three times the average spacing.